AMENDMENTS TO THE CLAIMS:

Please amend the claims to cancel Claims 1 - 13 and add new Claims 14 - 26 as follows, this listing of the claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 13 (Canceled)

14. (New) A device for regulating the armature stroke in a reversible linear drive unit comprising:

an excitation coil acted upon by an excitation coil current and providing a magnetic field;

a magnetic armature which is set in linear oscillating motion in an axial direction with a predefined armature stroke by the magnetic field;

means for detecting the actual armature position;

means for measuring the actual excitation coil current;

means for adjusting the excitation coil current during each half-wave of the armature motion in the steady state of the armature; and

the armature being supplied with the amount of energy such that the oscillation amplitudes of the predefined armature stroke are reached.

- 15. (New) The device according to claim 14, further comprising a spring element coupled to the armature and facilitating the oscillation of the armature.
- 16. (New) The device according to claim 14, wherein means for adjusting the excitation coil current includes a rectifier circuit and a following bridge circuit with adjustable bridge cross-links in an H-arrangement.
- 17. (New) The device according to claim 16, wherein the adjustable bridge cross-links are MOSFETS.

- 18. (New) The device according to claim 16, wherein the measured excitation coil current is supplied as an actual current input quantity to a current regulating module associated with the bridge cross-links, which switches the bridge cross-links such that the actual current signal is tuned to a desired current signal generated by a position regulator module and correlated with the actual armature position following the signal.
- 19. (New) The device according to claim 18, wherein the actual current signal is supplied to the position regulator module.
- 20. (New) The device according to claim 14, further comprising means for continuously detecting the direction of motion of the armature.
- 21. (New) The device according to claim 14, further comprising means for continuously detecting the speed of the armature.
- 22. (New) The device according to claim 14, further comprising a trigger position for a speed measurement at a fixed position within the armature travel.
- 23. (New) The device according to claim 22, wherein the trigger position is provided in the area of the maximum speed of the armature.
- 24. (New) The device according to claim 21, further comprising means for deriving the energy stored in the armature from the speed determination.
- 25. (New) The device according to claim 14, further comprising means for regulating the oscillation frequency of the armature.
- 26. (New) The device according to claim 14, wherein the armature is rigidly connected to a pump piston of a compressor.